

Form PTO-1449  
(REV. 7-20)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

**LIST OF PRIOR ART  
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(Use several sheets if necessary)



Atty. Docket No.  
**11535**

Serial No.  
**09/100,812**

Applicant  
**Michael Wayne Graham**

Filing Date  
**June 19, 1998**

Group  
~~1633~~ **1636**

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL*	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (if appropriate)
SE	5,714,323	2/3/98	Oshima, et al.	435	6	3/11/1994
SE	5,686,649	11/11/97	Chua, et al.	800	278	1/14/1995
SE	5,583,021	12/10/96	Dougherty, et al.	435	440	7/7/1994
SE	5,034,323	7/23/91	Jorgensen, et al.	435	440	4/17/1991
SE	5,231,020	7/27/93	Jorgensen, et al.	435	440	3/29/1990
SE	5,283,184	2/1/94	Jorgensen, et al.	800	278	1/14/1995
SE						

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
SE	WO 99/32619	7/1/99	PCT- WIPO	/	/		
SE	WO 95/10607	4/20/95	PCT- WIPO	/	/		
SE	WO 98/44138	10/8/98	PCT- WIPO	/	/		
SE	WO 96/08558	3/21/96	PCT- WIPO	/	/		
SE	EP 0560156A2	9/15/93	EPO	/	/		
SE	WO 99/25853	5/27/99	PCT- WIPO	/	/		
SE	EP 0242016	10/21/97	EPO	/	/		

**OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

SE	Fire, A., Xu, S.Q., Montgomery, M.K. Kostas, S.A. Driver, S.E. and Mello, C.C. (1998), "Potent and Specific Genetic Interference by Double-Standard RNA in Caenorhabditis elegans". <u>Nature</u> , 391 (6669): 806-811
SE	Garrick, D., Fiering, S., Martin, D.I. and Whitelaw, E. (1998), "Repeat-Induced Gene Silencing in Mammals", <u>Nature Genetics</u> 18(1): 56-59
SE	Dorer, D.R. and Henikoff, S. (1997) Transgene Repeat Arrays Interact with Distant Heterochromatin and Cause Silencing in cis and trans". <u>Genetics</u> 147(3)

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Se	WO 98/36083	8/20/98	PCT WIPO	/	/		
Se	WO 99/15682	4/1/99	PCT WIPO	/	/		
Se	WO 97/01952	1/23/97	PCT WIPO	/	/		
Se	WO 93/23551	11/25/93	PCT WIPO	/	/		
Se	WO 94/17194	8/4/94	PCT WIPO	/	/		
	WO 93/17098	9/2/93	PCT WIPO	/	/		
	WO 98/53083	11/26/98	PCT WIPO	/	/		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Se	Pal-Bhadra, M., Bhadra U. and Birchler, J.A. (1997) "Cosuppression in Drosophila: Gene Silencing of Alcohol Dehydrogenase by White-Adh Transgenes is Polycomb Dependent". <u>Cell</u> 90(3): 385-387
Se	Bingham, P.M. (1997) "Cosuppression Comes to the Animals". <u>Cell</u> 90(3): 385-387
Se	Cameron, F.H. and Jennings, P.A. (1991) "Inhibition of Gene Expression by a Short Sense Fragment". <u>Nucleic Acids Research</u> 19(3): 469-475
Se	Engdahl, H.M., et al. (1997), "A Two Unit Antisense RNA Cassette Test System for Silencing of Target Genes", <u>Nucleic Acids Research</u> 25(16): 3218-3227
Se	Katsuki, M., et al. (1988), "Conversion of Normal Behavior to Shiverer by Myelin Basic Protein Antisense cDNA in Transgenic Mice", <u>Science</u> 241(4865): 593-595

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Se	WO 90/11682	10/18/90	<del>PCT</del> WIPO	/	/		
Se	WO 98/37213	8/27/98	<del>PCT</del> WIPO	/	/		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Se	Kook, Y.H., et al. (1994), "The Effect of Antisense Inhibition of Urokinase Receptor in Human Squamous Cell Carcinoma on Malignancy", <u>The EMBO Journal</u> 13(17): 3983-3991
Se	Lee, R.C., et al. (1993), The C. elegans Heterochronic Gene lin-4 Encodes Small RNAs with Antisense Complementarity to lin-14". <u>Cell</u> 75: 843-854
Se	Moroni, M.C., et al. (1992) EGF-R Antisense RNA Blocks Expression of the Epidermal Growth Factor Receptor and Suppresses the Transforming Phenotype of a Human Carcinoma Cell Line. <u>Journal of Biological Chemistry</u> 267(4): 2714-2722
Se	Nellen, W. and Lichtenstein C. (1993), "What Makes a Messenger RNA Anti-Sensitive?" <u>Trends in Biochemical Sciences</u> 18(11): 419-423
Se	<del>Anderson, W.F. (1998), "Human Gene Therapy", <u>Nature</u> 392 (suppl.): 25-30</del>


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<b>LIST OF PRIOR ART CITED BY APPLICANT</b>  (Use several sheets if necessary)				Applicant <b>Michael Wayne Graham</b>			
				Filing Date <b>June 19, 1998</b>		Group <b>1633 1636</b>	



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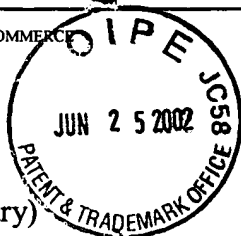
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
Sc	Kappel, C.A., et al. (1992), "Regulating Gene Expression in Transgenic Animals", <u>Current Opinion in Biotechnology</u> 3(5): 548-553.
Sc	Touhette, N. (1996), "Gene Therapy Not Ready for Prime Time (News)", <u>Nature Medicine</u> 2(1): 7-8
Sc	Verma, I.M., et al. (1997), "Gene Therapy Promises Problems and Prospects", <u>Nature</u> 389 (6648): 239-242
Sc	Viville, S. (1997), "Mouse Genetic Manipulation Via Homologous Recombination" In <u>Transgenic animals: Generation and Use</u> , Houdebine, L.M., ed. Harwood Academic Publishers, France 307-321
Sc	Wall, R.J. (1996), "Transgenic Livestock: Progress and Prospects for the Future", <u>Theriogenology</u> 45(1): 57-68
Sc	Angell, S.M., et al. (1997), "Consistent Gene Silencing in Transgenic Plants Expressing a Replicating Potato Virus X RNA", <u>The EMBO Journal</u> 16(12): 3675-3684
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<i>Sc</i>	Assaad, F.F., et al. (1993), "Epigenetic Repeat-Induced Gene Silencing (RIGS) in Arabidopsis. <u>Plant Molecular Biology</u> <b>22</b> (6): 1067-1085
<i>Sc</i>	Balandin, T., et al. (1997), "Silencing of a $\beta$ -1-3-glucanase Transgene is Overcome During Seed Formation", <u>Plant Molecular Biology</u> <b>34</b> (1) 125-137
<i>Sc</i>	Baulcombe, D.C. (1996) RNA as a Target and an Initiator of Post-Transcriptional Gene Silencing in Transgenic Plants". <u>Plant Molecular Biology</u> <b>32</b> (1-2): 79-88
<i>Sc</i>	Cogoni, C., et al. (1994), "Suppression of Gene Expression by Homologous Transgenes", <u>Antonie Van Leeuwenhoek</u> <b>65</b> (3): 205-209
<i>Sc</i>	Cogoni, C., et al. (1996), "Transgene Silencing of the al-1 Gene in Vegetative Cells of Neurospora is Mediated by a Cytoplasmic Effector and Does not Depend on DNA-DNA Interactions or DNA Methylation", <u>The EMBO Journal</u> <b>15</b> (12): 3153-3163
<i>Sc</i>	Cogoni, C., et al. (1997), "Isolations of Quelling-Defective (qde) Mutants Impaired in Posttranscriptional Transgene-Induced Gene Silencing in Neurospora Crassa". <u>Proceeding of the National Academy of Sciences of the United States of America</u> <b>94</b> (19): 10233-10238

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SC	Courtney-Gutterson, et al. (1994), "Modification of Flower Color in Florist's Chrysanthemum: Production of White-flowering Variety Through Molecular Genetics", <u>Biotechnology</u> 12(3): 268-271
SC	de Carvalho F., et al. (1992), "Suppression of $\beta$ -1,3-glucanase Transgene Expression in Homozygous Plants", <u>The EMBO Journal</u> 11(7): 2595-2602
SC	de Carvalho Niebel, F. et al. (1995), "Post-transcriptional Cosuppression of $\beta$ -1,3-glucanase Genes Does Not Effect Accumulation of Transgene Nuclear mRNA", <u>The Plant Cell</u> 7(3): 347-358
SC	De Lange, P., et al. (1995), "Suppression of Flavonoid Flower Pigmentation Genes in Petunia Hybrida by the Introduction of Antisense and Sense Genes", <u>Current Topics in Microbiology and Immunology</u> 197: 57-75

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SC	Depicker, A., et al. (1997), "Post-transcriptional Gene Silencing in Plants", <u>Current Opinion in Cell Biology</u> 9(3): 373-382
SC	English, J.J., et al. (1996), "Suppression of Virus Accumulation in Transgenic Plants Exhibiting Silencing of Nuclear Genes", <u>The Plant Cell</u> 8(2): 179-188
SC	Hamilton, A.J., et al. (1998), "A Transgene with Repeated DNA Causes High Frequency, Post-Transcriptional Suppression of ACC-Oxidase Gene Expression in Tomato", <u>The Plant Journal</u> 15(6): 737-746
SC	Jorgensen, R. (1990), "Altered Gene Expression in Plants Due to Trans Interactions Between Homologous Genes", <u>Trends in Biotechnology</u> 8(12): 340-344
SC	Jorgensen, R.A., et al. (1996), "Chalcone Synthase Cosuppression Phenotypes in Petunia Flowers: Comparison of Sense vs. Antisense Constructs and Single-Copy vs. Complex T-DNA Sequences", <u>Plant Molecular Biology</u> 31(5): 957-973

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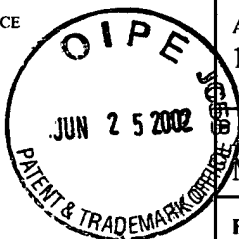
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SE	Knoester, M., et al. (1997), "Modulation of Stress-Inducible Ethylene Biosynthesis by Sense and Antisense Gene Expression in Tobacco", <u>Plant Science</u> 126(2): 173-183
SE	Kunz, C., et al. (1996), "Developmentally Regulated Silencing and Reactivation of Tobacco Chitinase Transgene Expression", <u>The Plant Journal</u> 10(3): 437-450
SE	Lee, K.Y., et al., (1997), "Post-transcriptional Gene Silencing of ACC Synthase in Tomato Results from Cytoplasmic RNA Degradation", <u>The Plant Journal</u> 12(5): 1127-1137
SE	Lindbo, J.A., et al., (1993), "Induction of a Highly Specific Antiviral State in transgenic Plants - Implications for Regulation of Gene Expression and Virus Resistance", <u>The Plant Cell</u> 5(12): 1749-1759
SE	Matzke, M.A., et al. (1998), "Epigenetic Silencing of Plant Transgenes as a Consequence of Diverse Cellular Defence Responses", <u>Cellular and Molecular Life Sciences</u> 54(1): 94-103

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<i>SL</i>	Mueller, E., et al. (1995), "Homology-dependent Resistance – Transgenic Virus Resistance in Plants Related to Homology-Dependent Gene Silencing", <u>The Plant Journal</u> 7(6): 1001-1013
<i>SL</i>	Meyer, P. (1996), "Repeat-induced Gene Silencing –Common Mechanisms in Plants and Fungi", <u>Biological Chemistry Hoppe-Seyler</u> 377(2): 87-95
<i>SL</i>	Napoli, C., et al. (1990), "Introduction of a Chimeric Chalcone Synthase Gene into Petunia Results in Reversible So-Suppression of Homologous Genes in trans, <u>The Plant Cell</u> 2(4): 279-289
<i>SL</i>	Palauqui, J.C., et al. (1997), "Systemic Acquired Silencing: Transgene-specific Post-transcriptional Silencing is Transmitted by Grafting from Silenced Stocks to Non-silenced scions, <u>The EMBO Journal</u> 16: 4738-4745
<i>SL</i>	Pang, S.Z., et al. (1997), "Nontarget DNA Sequences Reduce the Transgene Length Necessary for RNA-mediated Tospovirus Resistance in Transgenic Plants", <u>Proceedings of the National Academy of Sciences of the United States of America</u> 94(15): 8261-8266
<i>SL</i>	Park, Y.D., et al. (1996), "Gene Silencing Mediated by Promotor Homology Occurs at the Level of Transcription and Results in Meiotically Heritable Alterations in Methylation and Gene Activity", <u>The Plant Journal</u> 9(2): 183-194

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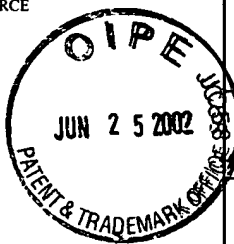
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<i>Se</i>	Que, Q., et al. (1998), "Homology-based Control of Gene Expression Patterns in Transgenic Petunia Flowers", <u>Developmental Genetics</u> 22(1): 100-109
<i>Se</i>	Romano, N., et al. (1992), "Quelling: Transient Inactivation of Gene Expression in Neurospora Crassa by Transformation with Homologous Sequences", <u>Molecular Microbiology</u> 6(22): 3343-3353
<i>Se</i>	Sadiq, M., et al. (1994), "Developmental Regulation of Antisense-mediated Gene Silencing in Dictyostelium", <u>Antisense Research &amp; Development</u> 4(4): 263-267
<i>Se</i>	Sijen, T., et al. (1996), "RNA-mediated Virus Resistance – Role of Repeated Transgenes and Delineation of Targeted Regions", <u>The Plant Cell</u> 8(12): 2277-2294
<i>Se</i>	Singer, M.J., et al. (1995), "Genetic and Epigenetic Inactivation of Repetitive Sequences in Neurospora Crassa: RIP, DNA Methylation, and Quelling", <u>Current Topics in Microbiology and Immunology</u> 197: 165-177

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<i>SE</i>	Smyth, D.R. (1997), "Gene Silencing: Cosuppression at a Distance", <u>Current Biology</u> 7(12): R793-795
<i>SE</i>	Stam, M., et al. (1997), "The Silence of Genes in Transgenic Plants", <u>Annals of Botany</u> 79(1): 3-12
<i>SE</i>	Tanzer, M.M., et al. (1997), "Characterization of Post-Transcriptionally Suppressed Transgene Expression that Confers Resistance to Tobacco Etch Virus Infection in Tobacco", <u>The Plant Cell</u> 9(8): 1411-1423
<i>SE</i>	Van der Krol, et al. (1990), "Inhibition of Flower Pigmentation by Antisense CHS Genes: Promoter and Minimal Sequence Requirements for the Antisense Effect", <u>Plant Molecular Biology</u> 14(4): 457-466
<i>SE</i>	Van der Krol, et al. (1990), "Flavonoid Genes in Petunia: Addition of a Limited Number of Gene Copies May Lead to a Suppression of Gene Expression", <u>The Plant Cell</u> 2(4): 291-299
<i>SE</i>	Vacheret, H. Nussaume, et al. (1997), "A Transcriptionally Active State is Required for Post-Transcriptional Silencing (Cosuppression) of Nitrate Reductase Host Genes and Transgenes", <u>The Plant Cell</u> 9(8): 1495-1504

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